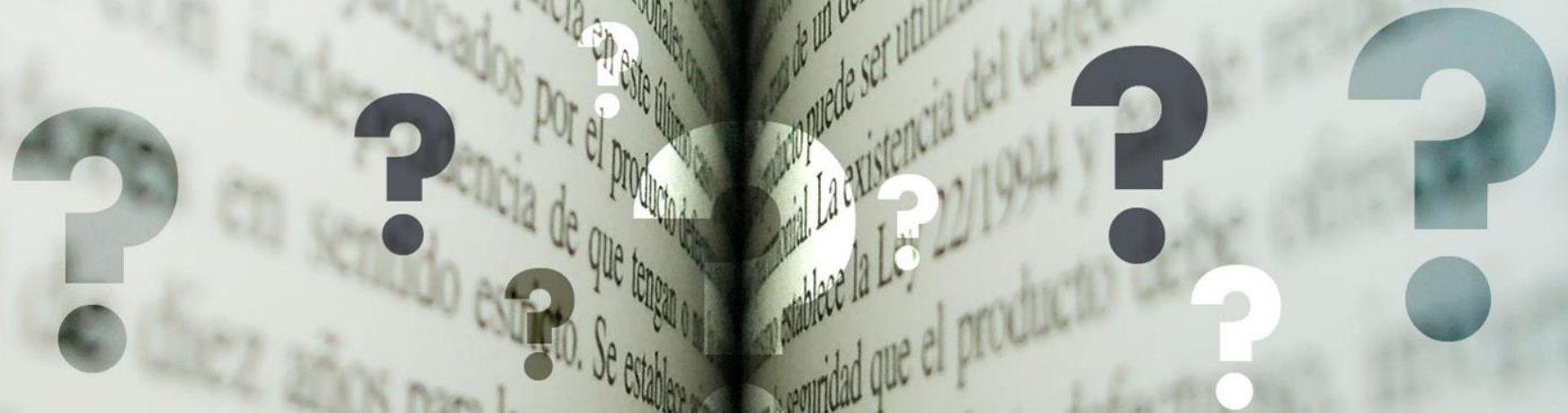




Research Outputs from Pakistan

An overview presented at
The Excellence in Research Workshop – November 2016
Muhammad Nabeel Musharraf, Basheer Ahmed Dars

In this presentation...

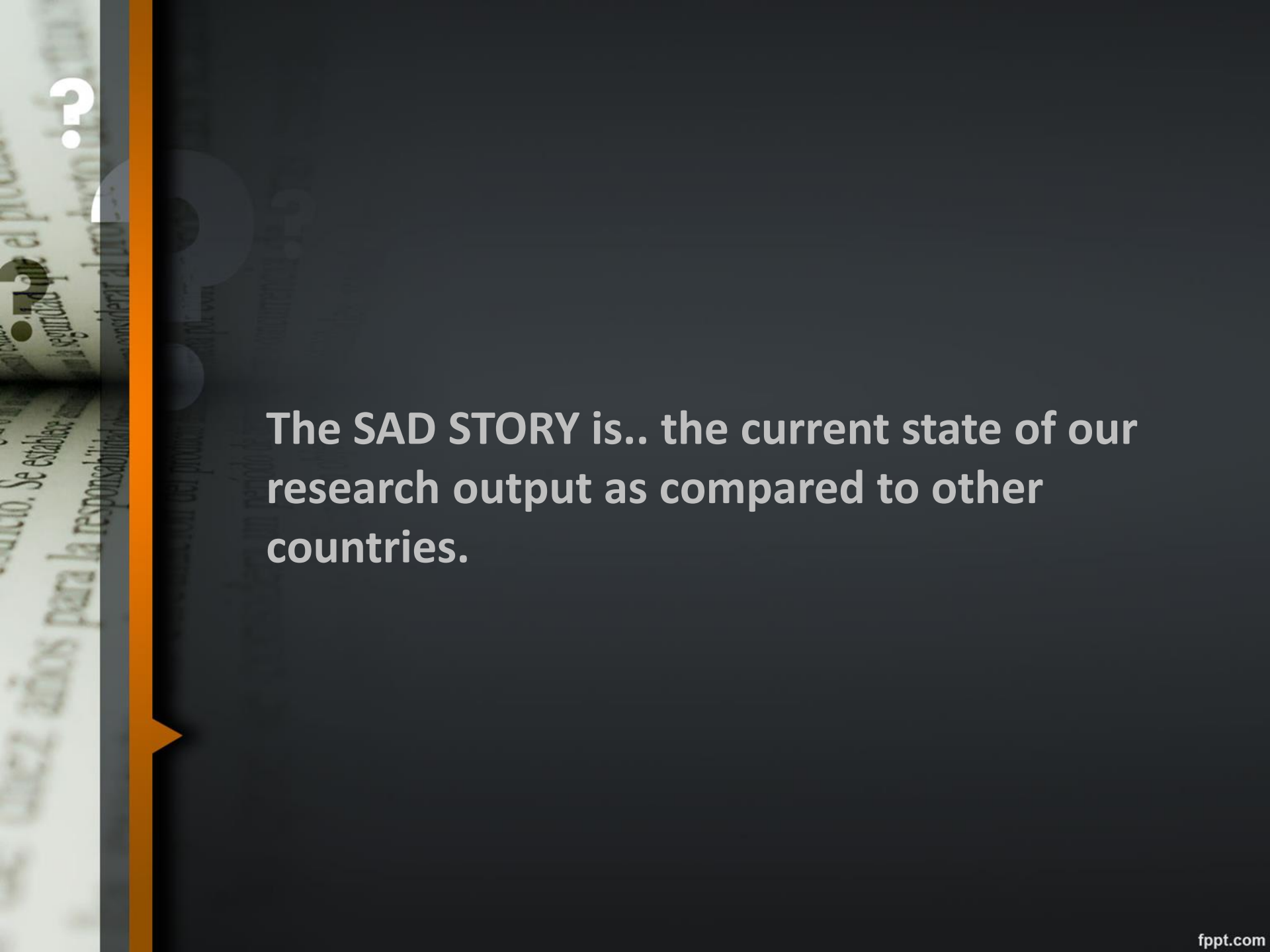
We will first present

A sad story

and then

A happy story!

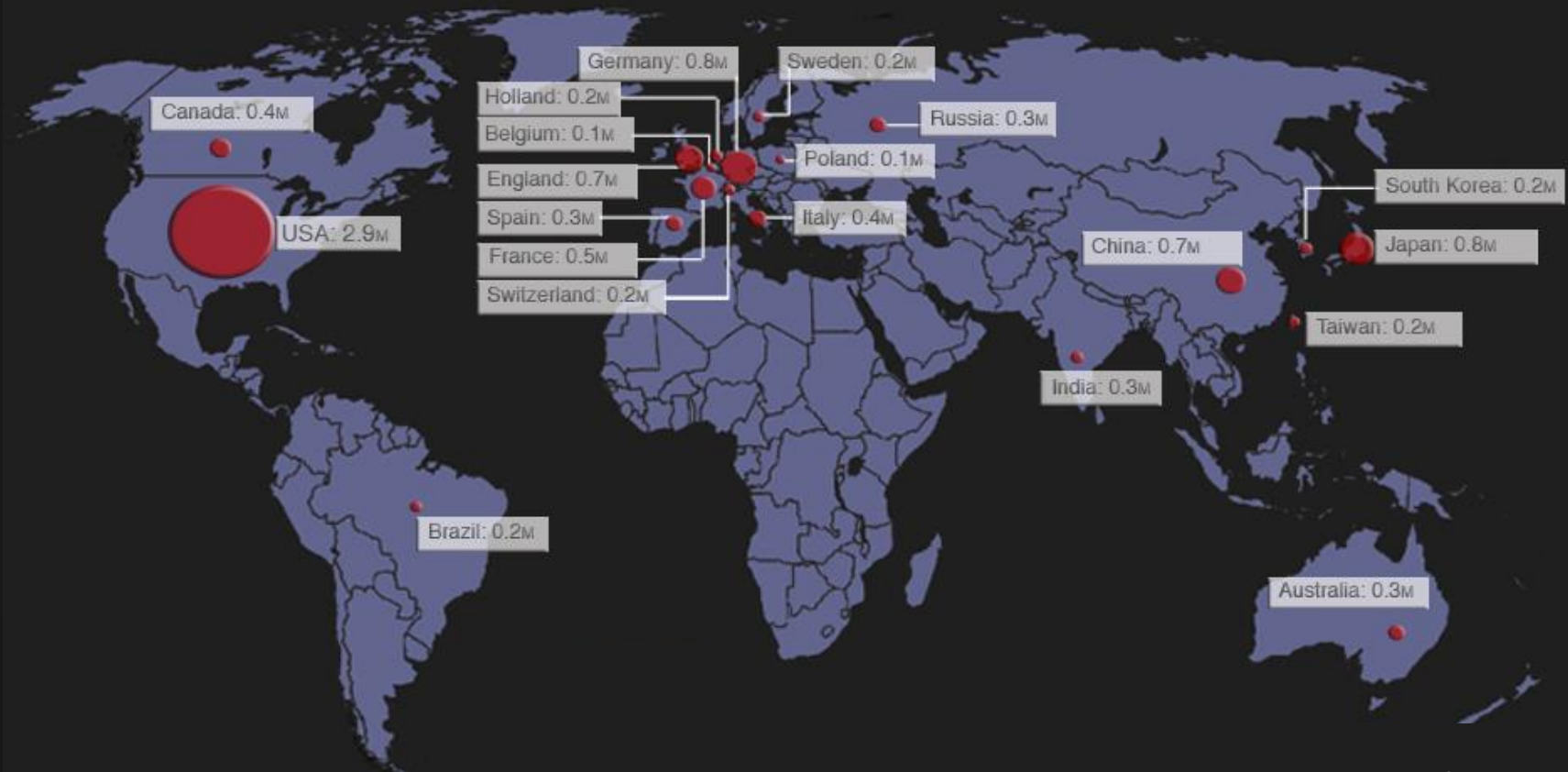




The SAD STORY is.. the current state of our research output as compared to other countries.

The top 20 countries for scientific output

Top 20 countries by the number of scientific publications (1999-2009)



* Numbers indicate the number of papers in millions (M)

Figure adapted from Young (2011)

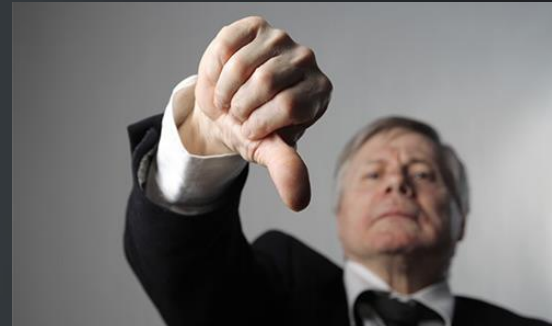
Among the analysts who view this phenomenon, we find two types of people...

Those who infuse motivation to move ahead and carve the way to success



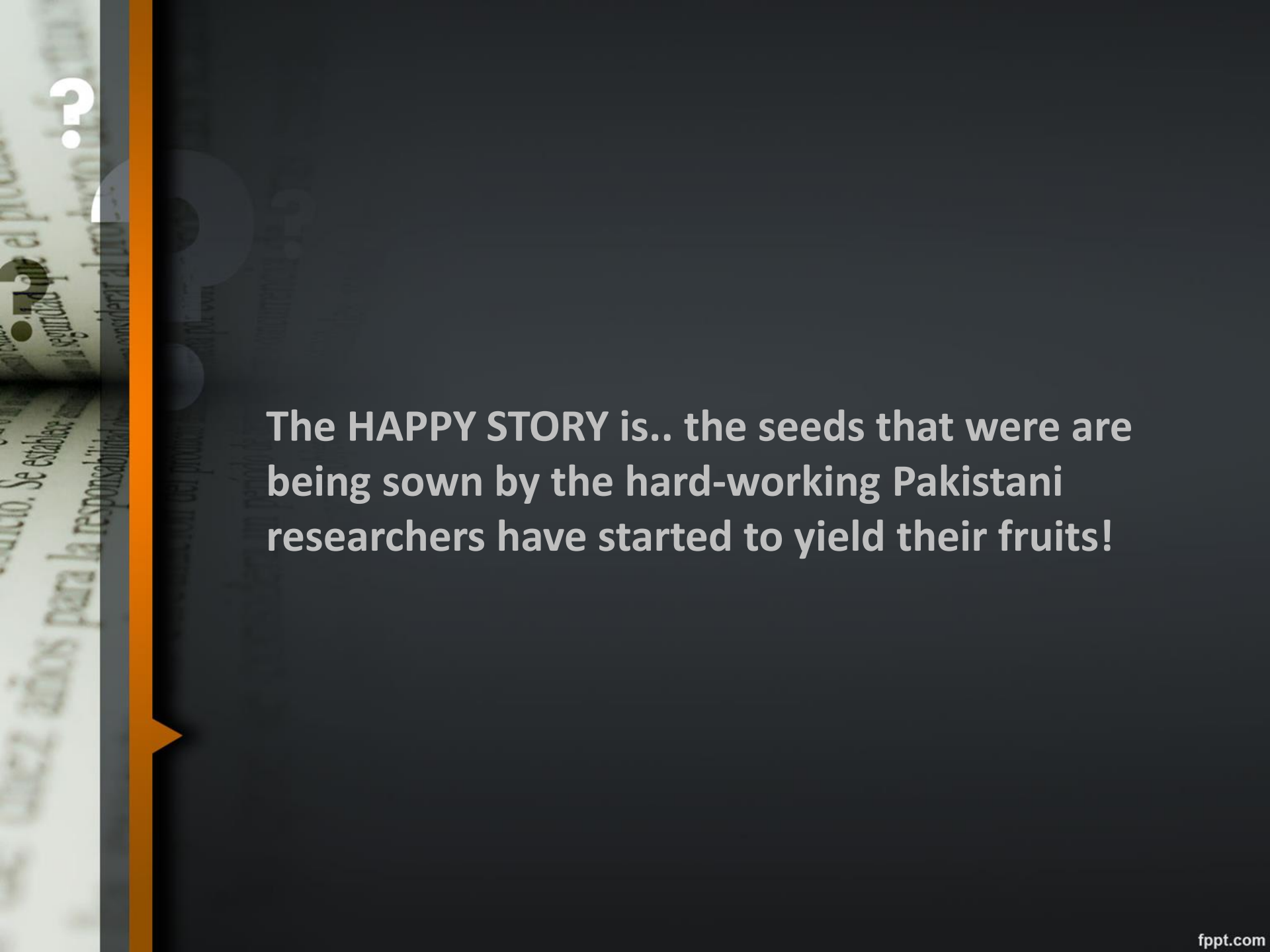
Picture credits: Taous (2016)

Those whose energies are focussed on proving how bad and hopeless we are!



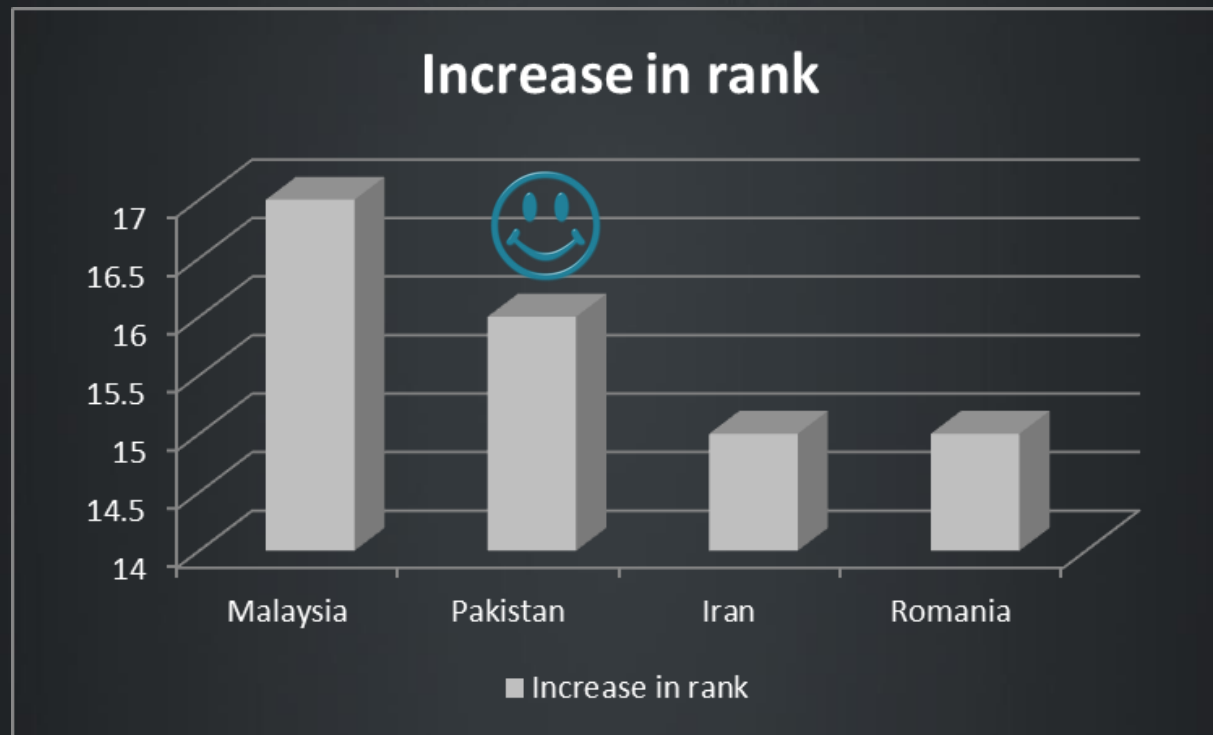
Picture credits: Schneider (2016)

We prefer to associate ourselves with the motivators!



The HAPPY STORY is.. the seeds that were are being sown by the hard-working Pakistani researchers have started to yield their fruits!

Top 3 countries with highest growth in the research output...



Source: SCIMAGO data re-produced by Farhan (2014)

“

Today, six of our universities are ranked among the top 500 of the world. During 1947-2003, prior to the establishment of the HEC, not a single university could achieve this distinction. In 2012, About 8,000 research papers were published from Pakistan, overtaking India in terms of research output per million population — a historic achievement.

”



Dr. Atta ur Rahman (2013)
Former Chairman HEC, Pakistan,
UNESCO Laureate



**On July 22, 2006,
Indian Prime Minister Manmohan Singh arranged for a detailed presentation to be made to him, regarding the spectacular progress that Pakistan was making since 2002 – under the leadership of Dr. Atta ur Rahman as chairman of the HEC – in uplifting universities and research institutions.**

The presentation was made by Prof C N R Rao, head of the Scientific Advisory Council to the prime minister of India, and the winner of India's highest national award, the Bharat Ratna.

Following this, an article was published in the 'Hindustan Times', on July 23, 2006 about the great success-story that Pakistan Dr. Atta ur Rahman crafted with support from Pakistani academics and researchers.

“

Around the world when we discuss the status of higher education in different countries, there is unanimity of opinion that the developing country that has made the most rapid progress internationally in recent years is Pakistan. In no other country has the higher education sector seen such spectacular positive developments as that in Pakistan during the last six years. After the formation of the Higher Education Commission, a silent revolution occurred and probably the best digital library in the world was set up in Pakistan... Such a nation-wide access to the latest literature is not even available in Europe or USA today, and Pakistan demonstrated that given honest, dedicated and dynamic leadership, as provided by Prof. Dr. Atta-ur-Rahman and his eminent colleagues led by Dr. Sohail Naqvi, it was possible to achieve the almost impossible.

”



**Prof Michael Rode,
Chairman of the United Nations Commission on Science, Technology and Development,
Professor at the University of Innsbruck, Austria**

Source:

Way forward

There is still a long way to go.

You are the one who can make a difference, today and tomorrow!



Picture source: Bourne (2015)

Some key actions...



"YOUR **FUTURE** IS CREATED BY WHAT
YOU DO { **TODAY** }
NOT { **TOMORROW** }